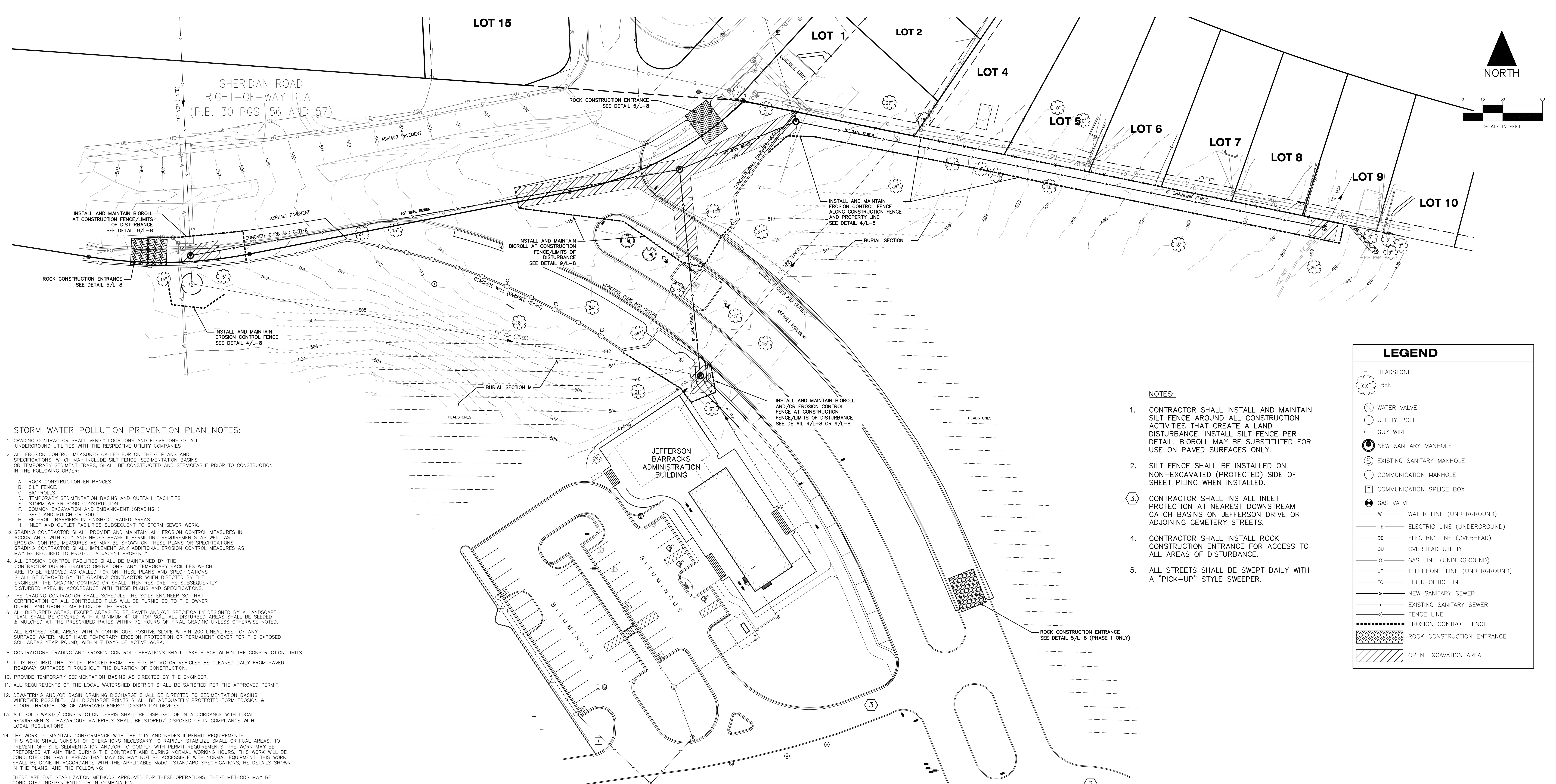

STORM WATER POLLUTION PREVENTION PLAN NOTES:

1. GRADING CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND UTILITIES WITH THE RESPECTIVE UTILITY COMPANIES
2. ALL EROSION CONTROL MEASURES CALLED FOR ON THESE PLANS AND SPECIFICATIONS, WHICH MAY INCLUDE SILT FENCE, SEDIMENTATION BASINS OR TEMPORARY SEDIMENT TRAPS, SHALL BE CONSTRUCTED AND SERVICEABLE PRIOR TO CONSTRUCTION IN THE FOLLOWING ORDER:
   A. ROCK CONSTRUCTION ENTRANCES.
   B. SILT FENCE.
   C. BIO–ROLLS.
   D. TEMPORARY SEDIMENTATION BASINS AND OUTFALL FACILITIES.
   E. STORM WATER POND CONSTRUCTION.
   F. COMMON EXCAVATION AND EMBANKMENT (GRADING)
   G. SEED AND MULCH OR SOD.
   H. BIO–ROLL BARRIERS IN FINISHED GRADED AREAS.
   I. INLET AND OUTLET FACILITIES SUBSEQUENT TO STORM SEWER WORK.
3. GRADING CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY AND NPDES PHASE II PERMITTING REQUIREMENTS AS WELL AS EROSION CONTROL MEASURES AS MAY BE SHOWN ON THESE PLANS OR SPECIFICATIONS. GRADING CONTRACTOR SHALL IMPLEMENT ANY ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED TO PROTECT ADJACENT PROPERTY.
4. ALL EROSION CONTROL FACILITIES SHALL BE MAINTAINED BY THE CONTRACTOR DURING GRADING OPERATIONS. ANY TEMPORARY FACILITIES WHICH ARE TO BE REMOVED AS CALLED FOR ON THESE PLANS AND SPECIFICATIONS SHALL BE REMOVED BY THE GRADING CONTRACTOR WHEN DIRECTED BY THE ENGINEER. THE GRADING CONTRACTOR SHALL THEN RESTORE THE SUBSEQUENTLY DISTURBED AREA IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
5. THE GRADING CONTRACTOR SHALL SCHEDULE THE SOILS ENGINEER SO THAT CERTIFICATION OF ALL CONTROLLED FILLS WILL BE FURNISHED TO THE OWNER DURING AND UPON COMPLETION OF THE PROJECT.
6. ALL DISTURBED AREAS, EXCEPT AREAS TO BE PAVED AND/OR SPECIFICALLY DESIGNED BY A LANDSCAPE PLAN, SHALL BE COVERED WITH A MINIMUM 4" OF TOP SOIL. ALL DISTURBED AREAS SHALL BE SEEDED & MULCHED AT THE PRESCRIBED RATES WITHIN 72 HOURS OF FINAL GRADING UNLESS OTHERWISE NOTED.

   ALL EXPOSED SOIL AREAS WITH A CONTINUOUS POSITIVE SLOPE WITHIN 200 LINEAL FEET OF ANY SURFACE WATER, MUST HAVE TEMPORARY EROSION PROTECTION OR PERMANENT COVER FOR THE EXPOSED SOIL AREAS YEAR ROUND, WITHIN 7 DAYS OF ACTIVE WORK.

8. CONTRACTORS GRADING AND EROSION CONTROL OPERATIONS SHALL TAKE PLACE WITHIN THE CONSTRUCTION LIMITS.
9. IT IS REQUIRED THAT SOILS TRACKED FROM THE SITE BY MOTOR VEHICLES BE CLEANED DAILY FROM PAVED ROADWAY SURFACES THROUGHOUT THE DURATION OF CONSTRUCTION.
10. PROVIDE TEMPORARY SEDIMENTATION BASINS AS DIRECTED BY THE ENGINEER.
11. ALL REQUIREMENTS OF THE LOCAL WATERSHED DISTRICT SHALL BE SATISFIED PER THE APPROVED PERMIT.
12. DEWATERING AND/OR BASIN DRAINING DISCHARGE SHALL BE DIRECTED TO SEDIMENTATION BASINS WHEREVER POSSIBLE. ALL DISCHARGE POINTS SHALL BE ADEQUATELY PROTECTED FORM EROSION & SCOUR THROUGH USE OF APPROVED ENERGY DISSIPATION DEVICES.
13. ALL SOLID WASTE/ CONSTRUCTION DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL REQUIREMENTS. HAZARDOUS MATERIALS SHALL BE STORED/ DISPOSED OF IN COMPLIANCE WITH LOCAL REGULATIONS
14. THE WORK TO MAINTAIN CONFORMANCE WITH THE CITY AND NPDES II PERMIT REQUIREMENTS. THIS WORK SHALL CONSIST OF OPERATIONS NECESSARY TO RAPIDLY STABILIZE SMALL CRITICAL AREAS, TO PREVENT OFF SITE SEDIMENTATION AND/OR TO COMPLY WITH PERMIT REQUIREMENTS. THE WORK MAY BE PREFORMED AT ANY TIME DURING THE CONTRACT AND DURING NORMAL WORKING HOURS. THIS WORK WILL BE CONDUCTED ON SMALL AREAS THAT MAY OR MAY NOT BE ACCESSIBLE WITH NORMAL EQUIPMENT. THIS WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE MoDOT STANDARD SPECIFICATIONS,THE DETAILS SHOWN IN THE PLANS, AND THE FOLLOWING:

    THERE ARE FIVE STABILIZATION METHODS APPROVED FOR THESE OPERATIONS. THESE METHODS MAY BE CONDUCTED INDEPENDENTLY OR IN COMBINATION.
    METHOD #1: APPLY TYPE 1 MULCH AND DISC ANCHOR
    METHOD #2: APPLY TYPE 1 MULCH AND TACK WITH TYPE 5 HYDRAULIC SOIL STABILIZER
    METHOD #3: HYDROSPREAD SEED,FERTILIZER AND TYPE 6 HYDRAULIC SOIL STABILIZER
    METHOD #4: HAND INSTALL SEED, FERTILIZER AND EROSION CONTROL BLANKET CATEGORY 3
    METHOD #5: PLACE GEOTEXTILE AND RIP RAP CLASS II IN VARIOUS CONFIGURATIONS

    THESE EFFORTS WILL BE INCIDENTAL TO THE EROSION CONTROL BID ITEM.
15. CONTRACTOR SHALL PROVIDE A TEMPORARY SEDIMENTATION BASIN ON SITE FOR CONSTRUCTION WASH OUT USE. TEMPORARY BASIN SHALL BE LOCATED AS TO PROVIDE EASY ACCESS FOR CONSTRUCTION VEHICLES AND CONCRETE TRUCKS AS NECESSARY.
16. INLET SEDIMENTATION CONTROL IS TO BE PROVIDED TO ALL STORM SEWER CATCH BASINS THROUGHOUT CONSTRUCTION. MEASURES APPLIED SHALL COMPLY WITH LOCAL BEST MANAGEMENT PRACTICES AND APPLICATIONS OF NPDES PHASE II AS APPROPRIATE FOR PHASE OF CONSTRUCTION.
17. INSPECTION FREQUENCY – ACTIVE SITES: DAILY DURING STORM WATER OR SNOWMELT RUNOFF AND AT LEAST EVERY 7 DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES IN A 24–HOUR PERIOD. INACTIVE SITES: EVERY TWO WEEKS FOR SITES THAT ARE INACTIVE FOR GREATER THAN 7 DAYS. EXPOSED AREAS MUST BE STABILIZED AND INSPECTED BEFORE LEAVING AN INACTIVE SITE.

CALL 48 HOURS BEFORE DIGGING
Utilities Underground Location Center
DIAL 811
811
Know what's below. Call before you dig.

STORM WATER POLLUTION PREVENTION PLAN SCHEDULE OF INSTALLATION & MAINTENANCE

ITEM	INSTALLATION	INSPECTION & MAINTENANCE	REMOVAL
SILT FENCE	PRIOR TO COMMENCEMENT OF EARTHWORK OPERATIONS.	INSPECT & MAINT. AFTER EACH RUN–OFF EVENT. REMOVE SEDIMENTS AS REQUIRED.	AFTER TRIBUTARY DRAINAGE AREA IS RESTORED.
ROCK CONST. ENTRANCE	PRIOR TO COMMENCEMENT OF EARTHWORK OPERATIONS.	INSPECT REGULARLY. MAINTAIN AS NEEDED.	PRIOR TO PAVING.
SEED & MULCH	AFTER FINAL GRADING OPERATIONS.	INSPECT & MAINTAIN AFTER HEAVY RAINS. REPLACE WASH–OUT AREAS IMMEDIATELY.	NO REMOVAL NECESSARY.
INLET PROTECTION	UPON INLET CONSTRUCTION	WHEN 1/3 CAPACITY OF BMP IS REACHED	AFTER TRIBUTARY AREAS ARE FULLY RESTORED

NOTE: CONTRACTOR IS RESPONSIBLE FOR INSTALLATION, MAINTENANCE AND REMOVAL OF ALL APPLICABLE EROSION & SEDIMENT CONTROL ITEMS.

NOTES:

1. CONTRACTOR SHALL INSTALL AND MAINTAIN SILT FENCE AROUND ALL CONSTRUCTION ACTIVITIES THAT CREATE A LAND DISTURBANCE. INSTALL SILT FENCE PER DETAIL. BIOROLL MAY BE SUBSTITUTED FOR USE ON PAVED SURFACES ONLY.
2. SILT FENCE SHALL BE INSTALLED ON NON–EXCAVATED (PROTECTED) SIDE OF SHEET PILING WHEN INSTALLED.
3. CONTRACTOR SHALL INSTALL INLET PROTECTION AT NEAREST DOWNSTREAM CATCH BASINS ON JEFFERSON DRIVE OR ADJOINING CEMETERY STREETS.
4. CONTRACTOR SHALL INSTALL ROCK CONSTRUCTION ENTRANCE FOR ACCESS TO ALL AREAS OF DISTURBANCE.
5. ALL STREETS SHALL BE SWEPT DAILY WITH A "PICK–UP" STYLE SWEEPER.

LEGEND

- HEADSTONE
- TREE
- WATER VALVE
- UTILITY POLE
- GUY WIRE
- NEW SANITARY MANHOLE
- EXISTING SANITARY MANHOLE
- COMMUNICATION MANHOLE
- COMMUNICATION SPLICE BOX
- GAS VALVE
- W — WATER LINE (UNDERGROUND)
- UE — ELECTRIC LINE (UNDERGROUND)
- OE — ELECTRIC LINE (OVERHEAD)
- OU — OVERHEAD UTILITY
- G — GAS LINE (UNDERGROUND)
- UT — TELEPHONE LINE (UNDERGROUND)
- FO — FIBER OPTIC LINE
- NEW SANITARY SEWER
- EXISTING SANITARY SEWER
- X — FENCE LINE
- EROSION CONTROL FENCE
- ROCK CONSTRUCTION ENTRANCE
- OPEN EXCAVATION AREA

P-0029720-00
BASE MAP 29H3

BID DOCUMENTS

Revisions	Date

CONSULTANTS:

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MISSOURI.
PRINT NAME: GARY R. JOHNSON, P.E.
SIGNATURE:
DATE March 28, 2016 P.E. 2012005390

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Drawing Title	Project Title	Project Number
EROSION CONTROL PLAN	SEWER RELOCATION	852CM3037
Approved: Project Director	Location: ST. LOUIS, MO	Drawing Number: L-7
	Date: 3-28-16 / Checked: AMT / Drawn: PSH	Dwg. 10 OF 17

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231